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<input type="checkbox"/>	L19	L18 and (arp or (address\$ adj resolution\$ adj protocol\$))	0
<input type="checkbox"/>	L18	l16 and l1	0
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<input type="checkbox"/>	L16	monitor\$ near8 (router\$ near4 availab\$)	21
<input type="checkbox"/>	L15	l1 and l14	16
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<i>DB=EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L12	L10 and (ppp or ptp or point-to-point or unicast\$)	0
<input type="checkbox"/>	L11	L10 same (ppp or ptp or point-to-point or unicast\$)	0
<input type="checkbox"/>	L10	((arp or (address\$ adj resolution\$ adj protocol\$)) near4 tabl\$) near12 router	12
<input type="checkbox"/>	L9	router\$ near12 (address\$ near2 (resolution\$ or resolv\$)) near12 (ppp or ptp or point-to-point or unicast\$)	0
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L8	router\$ near12 (address\$ near2 (resolution\$ or resolv\$)) near12 (ppp or ptp or point-to-point or unicast\$)	2
<input type="checkbox"/>	L7	router\$ near12 (arp or (address\$ adj resolution\$ adj protocol\$)) near12 (ppp or ptp or point-to-point or unicast\$)	3
<input type="checkbox"/>	L6	router\$ near12 tabl\$ near12 (ppp or ptp or point-to-point or unicast\$)	15
<input type="checkbox"/>	L5	l1 and L4	14
<input type="checkbox"/>	L4	(709/238 or 370/395.31).ccls.	1064
<input type="checkbox"/>	L3	L1 same updat\$	12
<input type="checkbox"/>	L2	L1 same (ppp or ptp or point-to-point or unicast\$)	3
<input type="checkbox"/>	L1	((arp or (address\$ adj resolution\$ adj protocol\$)) near4 tabl\$) near12 router	52

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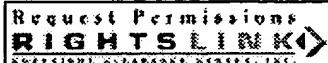
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## Next hop resolution using classical IP over ATM

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### Abstract:

In principle, more than one **routers** are intervened between different IP subnets. RFC1577 "Classical IP and ARP over ATM", which is specified to provide IP services over ATM network, also requires that the **router** be used between different LISs (Logical Subnets). However, the intervention of the **router** is not always an effective solution for inter-LIS communication. If there is a direct virtual channel connection between two end-points in ATM network, they can exchange their information directly without the help of a **router**. Actually, some groups of IETF and ATM Forum are looking on such tasks. As the NHRP (Next Hop Resolution Protocol) or MPOA (Multi-Protocol Over ATM) are being drafted. However, since those protocols are too heavy and complicate, it is not suitable to implement. In this paper, we propose a simple efficient solution for inter-LIS communication. Our solution is exactly compatible with RFC1577. We describe how RFC1577 can be used to provide inter-LIS communications and introduce our experimental systems and test-bed network.

### Index Terms:

asynchronous transfer mode local area networks protocols ATM IP subnets RFC1577 classical IP direct virtual channel connection inter-LIS communication logical IP subnets protocol over ATM next hop resolution protocol prototype systems test-bed network

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